CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.09/SS/CSR-06/064h/CEMENT/2016-17 Date: 15.06.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. S. Sharath,** #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore.
*NAME OF THE WORK	:	Construction of cement concrete Narrow roads at Narsipura in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.
*REFERENCE	:	AEE/BBMP/VSD/PR/302/2016-17 Dated: 13.06.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	13.06.2016
PERIOD OF TESTING	:	13.06.2016 to 15.06.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.09/SS/CSR-06/064h/SAND-Gradation/2016-17 : 15.06.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. S. Sharath,**
#7, 2nd Block, Juganahalli, Rajajinagara, Bangalore.

*** Name of Work** : Construction of cement concrete Narrow roads at Narsipura in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/302/2016-17 Dated: 13.06.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 13.06.2016

Date of Testing : 15.06.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.80	90-100	90-100	90-100	95-100
2.36	79.30	60-95	75-100	85-100	95-100
1.18	57.80	30-70	55-90	75-100	90-100
600 Micron	29.80	15-34	35-59	60-79	80-100
300 Micron	11.80	5-20	8-30	12-40	15-50
150 Micron	6.20	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.09/SS/CSR-06/064h/AGG/GR/2016-17 : 15.06.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. S. Sharath,**
#7, 2nd Block, Juganahalli, Rajajinagara, Bangalore.

*** Name of Work** : Construction of cement concrete Narrow roads at Narsipura in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/302/2016-17 Dated: 13.06.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 13.06.2016

Date of Testing : 15.06.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.79	95-100	85-100
20	31.57	30-70	0-20
10	11.57	10-35	0-5
4.75	1.57	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.09/SS/STEEL/2016-17 21.06.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. S. Sharath,** #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore.
Name of the Work	:	Construction of cement concrete Narrow roads at Narsipura in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/VSD/PR/302/2016-17 Dated: 13.06.2016
Date of Test	:	21.06.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	515	558	13.30	O.K	O.K

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.09/SS/STEEL/2016-17 21.06.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. S. Sharath,** #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore.
Name of the Work	:	Construction of cement concrete Narrow roads at Narsipura in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/VSD/PR/302/2016-17 Dated: 13.06.2016
Date of Test	:	21.06.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	16	1.58	520	563	13.45	O.K	O.K

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Job No.: CCTCE/BBMP/W.No.09/SS/CSR-06/064h/CUBE/2016-17 22.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. S. Sharath,**
#7, 2nd Block, Juganahalli, Rajajinagara, Bangalore.

*** Name of the work** : Construction of cement concrete Narrow roads at Narsipura in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Reference** : AEE/BBMP/VSD/PR/302/2016-17 Dated: 13.06.2016

*** Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{15}

Compressive Strength as on : 28th day

Sample Received on : 22.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.06.2016	22.07.2016	8.180	365.6	16.25
2	24.06.2016	22.07.2016	8.260	372.3	16.55
3	24.06.2016	22.07.2016	8.330	392.3	17.44

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Job No.: CCTCE/BBMP/W.No.09/SS/CSR-06/064h/CUBE/2016-17 23.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. S. Sharath,**
#7, 2nd Block, Juganahalli, Rajajinagara, Bangalore.

*** Name of the work** : Construction of cement concrete Narrow roads at Narsipura in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Reference** : AEE/BBMP/VSD/PR/302/2016-17 Dated: 13.06.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 23.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.06.2016	23.07.2016	8.110	478.3	21.26
2	25.06.2016	23.07.2016	8.265	492.3	21.88
3	25.06.2016	23.07.2016	8.325	512.3	22.77

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Job No.: CCTCE/BBMP/W.No.09/SS/CSR-06/064h/CUBE/2016-17 25.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. S. Sharath,**
#7, 2nd Block, Juganahalli, Rajajinagara, Bangalore.

*** Name of the work** : Construction of cement concrete Narrow roads at Narsipura in Ward No.09 in Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Reference** : AEE/BBMP/VSD/PR/302/2016-17 Dated: 13.06.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 25.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.06.2016	25.07.2016	8.225	482.3	21.44
2	27.06.2016	25.07.2016	8.315	492.6	21.89
3	27.06.2016	25.07.2016	8.478	510.3	22.68

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